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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/506,435

09/02/2004

Rene-Michael Cordes

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EXAMINER

LEMMA, SAMSON B

ART UNIT

PAPER NUMBER

2132

MAIL DATE

DELIVERY MODE

10/04/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/506,435

Applicant(s)

CORDES, RENE-MICHAEL

Examiner

Samson B. Lemma

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 7-9 is/are rejected.
- 7) ☒ Claim(s) 3-6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 09/02/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

1. **Claims 1-9** have been examined. Claim 1 is independent claims and claims **2-9 are** dependent claims.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119 (a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. **Claims 1-2 and 7-9** are rejected under 35 U.S.C. 102(b) as being anticipated by

Kencheng Zeng (hereinafter refereed as **Zeng**) (IEEE, Publication title, "Pseudorandom Bit Generators in Stream-Cipher Cryptography") (Published on 1999) (Submitted with applicant's IDS, with a missing page) (See reference U).

Note: Complete page of the above reference is attached.

Examiner has pointed out particular references contained in the prior arts of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully the entire references

Art Unit: 2132

as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner

5. **As per independent claim 1 Zeng discloses Code generator with a plurality of storage elements ($FF_{1,2,\dots,n}$) connected in a code-producing series (R), e.g., flip-flops**, [See, Figure 6, ref. Num "FF1, FF2, FF3 and FF5 and Page 10, ,middle column, lines 6-14 and figure 5 and See also page 10, middle column up to right hand column line 30], [The elements designated as FF1, FF2, FF3 and FF5 on figure 6 are flip-flops see for the description what is disclosed on page 10, middle column lines 6-14. Furthermore on page 10, middle column, lines 24-30, these flip-flops these are disclosed as storage elements of the FSR called stages, and as shown on figure 6, they are connected in a code-producing series R) **wherein the output of the last storage element (FF_5) in the series (R) is linked with the input of the first storage element (FF_1) in the series (R) to form a circuit**, [See figure 6, the connection b/n FF_1 and FF_5] **and outputs and inputs of the storage elements are recursively interconnected with EXOR gates inserted, characterized in that at least one EXOR gate ($EXOR_1$) is provided** [See, On figure 6, the EX-OR gate], **whose first input (1) is connected with the output of a storage element (FF_1) located in the code-producing series (R) [On figure 6, See ref. "1"], whose second input (2) is connected with the output of another storage element (FF_3) located in the code-producing series (R), [On figure 6, see "2"] and whose output (3) is connected with the input of the storage element (FF_2) [See figure 6, ref. "3"] following the storage element (FF_1) connected with the first input (1) of the EXOR gate ($EXOR_{p1}$) in the code-producing series (R), [See figure 6, "EX-OR gate] and that the output of a storage element (FF_5) located in the code-producing series (R) is connected with the input of an inverter (INV), and the output of the inverter (INV) is connected with the input of another storage**

Art Unit: 2132

element (FF₁) arranged in the code-producing series (R) [On figure 6, See Not gate or Inverter], (See also page 10, middle column up to right hand column line 30].

(Note: this is just one way of interpreting the graph, however figure 6 can be interpreted in various ways to meet the above limitation of the claim 1]

6. **As per dependent claim 2 Zeng discloses Code generator as applied to claims above. Furthermore, Zeng discloses the code generator**, characterized in that an AND gate (AND.sub.p1) is connected in the line connecting the second input (2) of the at least one EXOR gate (EXOR.sub.p1) and the output of the other storage element (FF.sub.3) located in the code-reproducing series (R), so that the output (4) of the AND gate (AND.sub.p1) is connected with the second input (2) of the EXOR gate (EXOR.sub.p1) the first input (6) of the AND gate (AND.sub.p1) is connected with the output of the other storage element (FF.sub.3) located in the code-producing series (R), and the second input (5) of the AND gate (AND.sub.p1) is connected with the output of a code-programming storage element (FF.sub.p1). **[See at least figure 4]**

7. **As per dependent claims 7-9 Zeng discloses Code generator as applied to claims above. Furthermore, Zeng discloses the code generator**, characterized in that it has at least one connection for at least a second, identically structured code generator, so that both code generators can be supplied with the same program clock at the same time. *[for instance on figure 10, see how the clock is applied, and on page 14, middle column last paragraph, see at least how the clock is controlled jointly]*

Allowable Subject Matter

8. **Claims 3-6** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2132

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.(See PTO-Form 892).


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samson B Lemma whose telephone number is 571-272-3806. The examiner can normally be reached on Monday-Friday (8:00 am---4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BARRON JR GILBERTO can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 703-873-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SAMSON LEMMA

S.L.
09/11/2007


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